DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
Office of Structural Materials
Quality Assurance and Source Inspection

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Contract #: 04-0120F4
Cty: SF/ALA Rte: 80 PM: 13.2/13.9
File #: 69.15

SOURCE INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter
Address: 333 Burma Road
City: Oakland, CA 94607

Report No: SIR-002933
Date Inspected: 17-Nov-2010

Project Name: SAS Superstructure
Prime Contractor: American Bridge/Fluor Enterprises, a JV
Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island

OSM Arrival Time: 700
OSM Departure Time: 1900
Location: Changxing Dao, Shangha

Quality Control Contact: Don Walton
Quality Control Present: ☑ Yes ☐ No
Material transfer: ☐ Yes ☐ No ☑ N/A
Sampled Items: ☐ Yes ☐ No ☑ N/A
Stock Transfer: ☐ Yes ☐ No ☑ N/A
OK to Cut: ☐ Yes ☐ No ☑ N/A
Rebar Test Witness: ☐ Yes ☐ No ☑ N/A
Delayed/Cancelled: ☐ Yes ☐ No ☑ N/A
Other: Coatings Inspection
Bridge No: 34-0006
Component: Sub-Assemblies (OBG), OBG 12AW, 12AE a
Bid Item: 77, 78, 79
Lot No:

Summary of Items Observed:

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Kenneth W. Cason Jr. arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections is to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Sub-Assemblies (OBG)

Assembled L-splices on Travel Rail (22 Each), NOI Number 5040: In preparation for undercoat installation, and in accordance with project specifications and SSPC-SP 1, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Assembled L-splices on Travel Rail (22 Each). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Channel CATW12-P-2 (5 Each), Shim Plates X3276S (8 Each), Splices (22 Each), Splices X37J (12 Each) and Triangle Plates (24 Each), NOI Number 5045: In preparation for undercoat installation and in accordance with project specifications and SSPC-SP 1, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Channel CATW12-P-2 (5 Each), Shim Plates X3276S (8 Each), Splices (22 Each), Splices X37J (12 Each) and Triangle Plates (24 Each). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

OBG Assembly Plates (8 Each), Splices ZP06-787-J-13-1890 (33 Each) and Shim Plates X37J (95 Each), NOI

Number 5047: In accordance with project specifications and SSPC-SP 1, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on OBG Assembly Plates (8 Each), Splices ZP06-787-J-13-1890 (33 Each) and Shim Plates X37J (95 Each)in preparation for blasting operations. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

OBG

12AW OBG External Surfaces, NOI Number 5041: In preparation for undercoat installation, and in accordance with project specifications and SSPC-SP 1, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on 12AW OBG External Surfaces. Bresle Method to assess the level of soluble salts using a patch, distilled water and a conductivity gauge in accordance ISO 11127-6 and ISO 11127-7 were satisfactory with readings x3 (16.1, 25.1 and 11.9 µs/cm). Discrepancies noted requiring additional grinding, weld repairs and re-blasting. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection.

12AW OBG Internal Ceiling from Pre-weld Seam to P.P112 and P.P111, NOI Number 5048: In accordance with project specifications and SSPC-SP 1, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on 12AW OBG Internal Ceiling from Pre-weld Seam to P.P112 and P.P111 in preparation for blasting operations. ABF and ZPMC QA/QC recorded x2 soluble salts readings of 20.7 and 13.4µs/cm. Discrepancies noted requiring additional grinding, weld repairs and re-blasting. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection.

12AE OBG Internal Ceiling Surface, NOI Number 5049: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on 12AE OBG Internal Ceiling for dry film thickness (DFT) compliance. Recorded DFT reading were low out of specification range and dry spray was present on surface. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection.

12AE OBG External Surfaces, NOI Number 5051: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on 12AE OBG External Surfaces was tested in accordance with SSPC-SP 1 (Surface Cleanliness), SSPC-PA 2 Dry Film Thickness (DFT), ISO 11127-6, ISO 11127-7 (Residual Chlorides) and ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub). All test results were acceptable and within desired limits. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to holidays in the applied coating and dry spray was present on surface.

Office

Attend to report writing and photo documentation.

Note: Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

SOURCE INSPECTION REPORT

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Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact , who represents the Office of Structural Materials for your project.

Inspected By:	Cason,Kenneth	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer